

Title (en)
GENERAL LIGHTING WITH PHOTOBIMODULATION

Title (de)
ALLGEMEINE BELEUCHTUNG MIT PHOTOBIMODULATION

Title (fr)
ÉCLAIRAGE GÉNÉRAL À PHOTOBIMODULATION

Publication
EP 4061482 A1 20220928 (EN)

Application
EP 20807815 A 20201123

Priority
• EP 19211059 A 20191122
• EP 2020083093 W 20201123

Abstract (en)
[origin: EP3824952A1] A lighting arrangement for general lighting, comprising a first light source adapted to emit a first light substantially only in a first predetermined spectrum in a range 615-690nm, the first light having a first radiant power in the first predetermined spectrum and a second light source adapted to emit a second light in a second predetermined spectrum in a range 300-700nm, and a color point at a distance less than 8 Standard Deviation Color Matching to a black body line in a CIE XYZ color space, the second light having a second radiant power in the second predetermined range. The lighting arrangement also comprises a driver circuit adapted to provide a first driving current to the first light source but not to the second light source, wherein the first driving current is a pulsed current having pulses with a pulse width in a range 0.04-0.5ms, and a pulse frequency in a range 50-1000Hz, and a duty cycle not greater than 10%, and wherein the first radiant power of the first light in the first predetermined spectrum is at least twice the second radiant power of the second light in the second predetermined spectrum during the pulses of the first driving current.

IPC 8 full level
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Citation (examination)
US 2010277316 A1 20101104 - SCHLANGEN LUCAS JOSEF MARIA [NL], et al

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